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INTERNATIONAL PRELIMINARY EXAMINATION REPORTINO

PCT

(PCT Article 36 and Rule 70)

Applicantle on agentle Clarefore	T						
Applicant's or agent's file reference PCT 20967Y	FOR FURTHER ACTION See Notification Preliminary Ex		on of Transmittal of International examination Report (Form PCT/IPEA/416)				
International application No.	International filing date (day/month/year)		Priority date (day/month/year)				
PCT/US03/10737	08 April 2003 (08.04.2003)		12 April 2002 (12.04.2002)				
International Patent Classification (IPC)	or national classification and IPC						
IPC(7): A61K 31/439; C07D 221/22; A61P 35/00 and US Cl.: 514/295; 546/93							
Applicant							
MERCK & CO., INC.							
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. This REPORT consists of a total of sheets, including this cover sheet. This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made 							
before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of sheets. 3. This report contains indications relating to the following items:							
I Basis of the report II Priority							
III Non-establishme	ent of report with regard to no	elty, inventive	step and industrial applicability				
IV Lack of unity of							
V Reasoned statem							
VI Certain docume	nts cited						
VII Certain defects i	in the international application		·				
		eation					
VIII Certain observations on the international application							
Date of submission of the demand	Date	of completion	of this report				
24 June 2003(24.06.2003)	24 A	ıgust 2004 (24.0	8.2004)				
Name and mailing address of the IPEA/U Mail Stop PCT, Atta: IPEA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	Evel	prized officer Huang hone No. (703)	Muherce For				

Form PCT/IPEA/409 (cover sheet)(July 1998)



International a	pplication	Nt
PCT/US03/10	737	

I.	Bas	s of the report					
	<u> </u>	regard to the elements of the international application:*					
	\boxtimes	the international application as originally filed.					
	X	the description:					
	لاعا	pages 1-167 as originally filed					
		pages NONE , filed with the demand					
		pages NONE , filed with the letter of					
		the claims:					
	لجكا						
		pages 168-189, as originally filed pages NONE, as amended (together with any statement) under Article 19					
		pages NONE, filed with the demand					
		pages NONE, filed with the letter of					
		the drawings:					
		pages NONE, as originally filed pages NONE, filed with the demand					
		pages NONE , filed with the letter of					
	ш	the sequence listing part of the description:					
		pages NONE, as originally filed pages NONE, filed with the demand					
		pages NONE , filed with the letter of					
2.	Wit	regard to the language, all the elements marked above were available or furnished to this Authority in the					
_	iangu	age in which the international application was filed, unless otherwise indicated under this item					
	Thes	elements were available or furnished to this Authority in the following language which is:					
		the language of a translation furnished for the purposes of international search (under Rule23.1(b)).					
	Ħ						
	H	the language of publication of the international application (under Rule 48.3(b)).					
	ш	the language of the translation furnished for the purposes of international preliminary examination(under Rules 55.2 and/or 55.3).					
2	Wiish	·					
Э.	inter	regard to any nucleotide and/or amino acid sequence disclosed in the international application, the ational preliminary examination was carried out on the basis of the sequence listing:					
		contained in the international application in printed form.					
	Ц	filed together with the international application in computer readable form.					
	Ц	furnished subsequently to this Authority in written form.					
	닏	furnished subsequently to this Authority in computer readable form.					
	Ш	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.					
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.					
4.		The amendments have . suited in the cancellation of:					
٠.	ш	<u> </u>					
		the description, pages NONE					
		the claims, Nos. NONE					
.	$\overline{}$	the drawings, sheets/fig NONE					
o.	This report has been established as if (some of) the arrendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**						
* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). ** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.							

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International application No PCT/US03/10737

V.	Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability, citations and explanations supporting such statement				
1.	STATEMENT				
	Novelty (N)	Claims	5-12 and 14-28	YES	
		Claims	1-4 and 13	NO	
	Inventive Step (IS)	Claims	5-12 and 14-28	YES	
i		Claims	1-4 and 13	NO	
	Industrial Applicability (IA)	Claims	1-28	YES	
	The state of the s	Claims	NONE	NO	

2. CITATIONS AND EXPLANATIONS

Claims 1-4, 13 lack novelty under PCT Article 33(2) as being anticipated by US 4,332,810. The compounds of Examples 1-5 and the composition thereof, are encompassed by the instant claims.

Claims 1, 2, 13 lack novelty under PCT Article 33(2) as being anticipated by BELANGER et al. The compounds 6, 8 (page 2177) and 11, 15 (page 2178), and the composition thereof, are encompassed by the instant claims.

Claims 1, 2 lack novelty under PCT Article 33(2) as being anticipated by IDDON et al. The compounds 24, 25 (page 1085) are encompassed by the instant claims.

Claims 5-12, 14-28 meet the criteria set out in PCT Article 33(2)-(3), because the prior art only teaches R1 as hydroxy or methoxy, and does not teach or fairly suggest the instant compound wherein R1 is hydrogen, amino or halogen. The prior art only teaches the use of the compound for treating pain, and does not teach the use of the inventive compound for treating a protein kinase related disorder as recited in the instant.

Claims 1-28 meet the criteria set out in PCT Article 33(4), and thus find industrial applicability because the subject matter claimed can be made or used in the pharmaceutical industry in the treatment of a protein kinase related disorder.